

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER**

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DATE: 7 October 2015

TO: The Record

FROM: U.S. Army Corps of Engineers
26 Federal Plaza, ATTN: CENAN-OP-ST
New York, NY 10278-0090

RIVER/HARBOR NAME AND STATE:

New York Harbor, Channel Along NJ Pierhead Line

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

NAME OF REACH	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)				
Channel Along NJ Pierhead Line – Reach A (rectangular widening): From approximately 40 ft. seaward of RED #2 W/LIGHT to approximately of RED NUN #8.	Map 47 Pg 1 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	300	0.44	20	18.9			
Channel Along NJ Pierhead Line – Reach A: From approximately 30 feet seaward of RED #6 W/LIGHT to approximately 400 feet landward of RED NUN #8.	Map 47 Pg 1 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	Irregular	0.61	20	13.8	20.9	21.9	22.0
Channel Along NJ Pierhead Line – Reach B: From approximately 400 feet landward of RED NUN #8 to approximately 15 feet landward of RED NUN #18.	Map 47 Pgs 1 & 2 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	500	0.80	20	5.2	17.9	17.4	13.4
Channel Along NJ Pierhead Line – Reach C: From approximately 15 feet landward of RED NUN #18 to approximately 20 feet landward of GREEN #1 W/LIGHT.	Map 47 Pg 2 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	500 - 780	0.87	20	7.4	7.7	7.6	7.5
Channel Along NJ Pierhead Line – Reach C (triangular shape widening): From approximately 15 feet landward of RED NUN #18 to approximately 20 feet landward of GREEN CAN #3.	Map 47 Pg 2 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	Triangular Shape	0.60	20	7.5			
Liberty Island Anchorage – Reach A: From approximately 280 ft. landward of GREEN #1 W/LIGHT to approximately 200 feet landward of RESTRICTED ZONE BUOY.	Map 47 Pgs 2, 3 & 4 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	720	1.59	20	12.9	16.2	20.7	19.9
Liberty Island Anchorage – Reach A (trapezoidal shape widening): From approximately 200 feet landward of RED NUN #4 to approximately 160 feet landward of RED NUN #2.	Map 47 Pgs 2 & 3 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	Trapezoidal Shape	0.54	20	8.0			
Liberty Island Anchorage – Reach A (irregular shape widening): From approximately 950 feet seaward of GREEN #35 W/LIGHT to approximately 200 feet landward of RESTRICTED ZONE BUOY.	Map 47 Pg 4 of 4; 21, 27, 28 May, 1, 2, 8-12, 15 June 2015	Irregular Shape	0.50	20	3.9			

REMARKS:

- All depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.

CHANNEL ALONG NEW JERSEY PIERHEAD LINE:

- **Reach A (rectangular widening):** Shoaling exists beginning approximately 360 feet seaward of RED NUN #4 and ends approximately 370 feet landward of RED NUN #4.
- **Reach A:** Shoaling exists in the Left Outside Quarter along the channel toe beginning approximately 320 feet landward of GREEN #1 W/LIGHT and continues to approximately 420 feet seaward of GREEN CAN #7.
- **Reach B:** Shoaling exists in the Left Outside Quarter, extending into the Left Inside Quarter beginning approximately 10 feet landward of GREEN #13 W/LIGHT and continues to approximately 340 feet landward of RED NUN #14 having a maximum width of approximately 160 feet. Shoaling exists in the Right Outside Quarter beginning approximately 260 feet seaward of RED #16 W/LIGHT and continues approximately 180 feet landward, having a maximum width of approximately 30 feet. Shoaling exists in the Right Outside Quarter and extends into the Right Inside

Quarter beginning approximately at RED #16 W/LIGHT and continues to the end of the Reach approximately 10 feet landward of RED NUN #18.

- **Reach C:** Shoaling exists along the Right Inside and Outside Quarter starting approximately 15 feet landward of RED NUN #18 to approximately 70 feet landward of RED NUN #18 where the shoal extends throughout the entire width of the channel and ends approximately 50 feet seaward of GREEN CAN #3, excluding an area where project depth is available approximately 120 feet seaward of GREEN & RED JUNCTION "P" W/LIGHT. In the Left Outside Quarter and extends to the Right Outside Quarter approximately 55 feet landward of GREEN #5 W/LIGHT and continues to approximately 200 feet seaward of RED #6 W/LIGHT.
- **Reach C (triangular shape widening):** Shoaling exists throughout the entire width of the widening starting approximately 15 feet landward of RED NUN #18 and continuing to approximately 190 feet seaward of GREEN & RED JUNCTION "P" W/LIGHT, excluding an area where project depth is available approximately 20 feet landward of GREEN #5 W/LIGHT to approximately 50 feet seaward of RED #4 W/LIGHT.

LIBERTY ISLAND ANCHORAGE:

- **Reach A:** Shoaling exists in the Left Outside Quarter starting approximately 90 feet seaward of ANCHOR BUOY and continues to approximately 320 feet seaward of RED NUN #2 with a maximum width of approximately 25 feet. Shoaling exists approximately 250 feet landward of RESTRICTED ZONE BUOY in the Left Inside and Outside Quarter and continues to approximately 200 feet landward of RESTRICTED ZONE BUOY. The maximum width within these parameters is approximately 420 feet.
- **Reach A (trapezoidal shape widening):** Shoaling existing across the majority of width of this entire reach starting from approximately 20 feet landward of RED NUN #4 to approximately 165 feet landward of RED NUN #2. Project depth is available approximately 290 feet landward of RED NUN #4 and continues to approximately 1,040 feet seaward to RED NUN #2 with a maximum width of 170 feet. Project depth is available approximately 330 feet seaward of RED NUN #2 to approximately 165 feet landward of RED NUN #2 with a maximum width of approximately 100 feet.
- **Reach A (irregular shape widening):** Shoaling exists starting in the left side of the widening starting approximately 1,010 feet seaward of GREEN #35 W/LIGHT to approximately 200 feet landward of RESTRICTED ZONE BUOY, excluding an area where project depth is available beginning approximately 950 feet seaward of GREEN #35 W/LIGHT on the right side of the widening along Reach A and continues to approximately 200 feet landward of RESTRICTED ZONE BUOY. The maximum width within these parameters is approximately 490 feet.